



US005328708A

**United States Patent** [19]**Rizzi et al.**[11] **Patent Number:** **5,328,708**[45] **Date of Patent:** **Jul. 12, 1994**[54] **ROAST GROUND COFFEE WITH  
DEFATTED SPENT COFFEE GROUNDS**78650 5/1983 European Pat. Off. .... A23F 5/18  
2283798 11/1990 Japan .[75] **Inventors:** **George P. Rizzi; Roger W. Gutwein,**  
both of Cincinnati, Ohio[73] **Assignee:** **The Procter & Gamble Company,**  
Cincinnati, Ohio[21] **Appl. No.:** **947,857**[22] **Filed:** **Sep. 18, 1992****Related U.S. Application Data**[63] Continuation-in-part of Ser. No. 809,367, Dec. 18,  
1991, abandoned.[51] **Int. Cl.<sup>5</sup>** ..... **A23F 5/00**[52] **U.S. Cl.** ..... **426/388; 426/594;**  
426/595; 426/430[58] **Field of Search** ..... 502/401, 404; 426/594,  
426/595, 388, 430[56] **References Cited****U.S. PATENT DOCUMENTS**

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went data base accession No. 89-310014/43.*Primary Examiner*—Joseph Golian*Attorney, Agent, or Firm*—Ronald L. Hemingway;  
William J. Winter[57] **ABSTRACT**

Lipids are removed from spent coffee grounds using  
 certain lipophilic solvents or series of solvents. The  
 resulting defatted spent coffee grounds contain less than  
 about 2% lipids. The defatted spent coffee grounds act  
 as an adsorbent for bitter coffee flavors and burnt coffee  
 aromas. This adsorbent can be added to roast ground  
 coffee, preferably low quality or dark roasted coffee, to  
 reduce burnt aromas and bitter flavors associated with  
 the corresponding brewed coffee or coffee extract.

**8 Claims, No Drawings**